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, ATENT COOPERATION TREA, Y

To:

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room
CP2/5C24
Arlington, VA 22202
ETATS-LINIS D'AMERIQUE

Date of mailing: 22 February 2001 (22.02.01)	Arlington, VA 22202 ETATS-UNIS D'AMERIQUE in its capacity as elected Office			
International application No.: PCT/DK99/00437	Applicant's or agent's file reference: 59871/GW/AW			
International filing date: 16 August 1999 (16.08.99)	Priority date:			
Applicant: JACOBSEN, Ole, Anders				

	filed with the International preliminary Examining Authority on	:
	07 July 2000 (07.07.00)	
in a notice effec	cting later election filed with the International Bureau on:	
		_
The election X	was	
	was not	e de la companya de l
	ration of 19 months from the priority date or, where Rule 32 ap	plies, within the time limit under
made before the expi Rule 32.2(b).		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer:

J. Zahra

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



PATENT COOPERATION TREATY

NOTIFICATION OF WITHDRAWAL OF INTERNATIONAL APPLICATION OR DESIGNATIONS

(PCT Rule 90bis.1 and 90bis.2 and Administrative Instructions, Section 415(a))

From the INTERNATIONAL BUREAU

To.

BUDDE, SCHOU & OSTENFELD A/S Vestergade 31 DK-1456 København K DANEMARK

Eugénia Santos

Telephone No. (41-22) 338.83.38

Date of mailing (day/month/year) 02 February 200			
Applicant's or agent's file reference 59871/G		1	MPORTANT NOTIFICATION
International application No. PCT/DK99/00437	International filing date (day/mo		Priority date (day/month/year)
Applicant	GEORG FISCH	ER DISA A/S	
started upon the express rec the international the designations for an by indic for a E by indic for an for an for a E	application of the following States: ARIPO patent (specify "all States" exating the two-letter country codes): urasian patent	or, if the withdrawd or, if the withdrawd	In national processing or examination has already all concerns only some States, specify those States only all concerns only some States, specify those States only etter country codes):
has (have) been withdrawn	on the date of receipt of the notice		awal as indicated below:
before the comp publication: of the of the after the compl taken into accou	international application. designations specified above. etion of the technical preparation int for the international publication	s for publication s for publication n. val, the designated	d (or elected) Offices, the International Searching accordingly.
The International	Bureau of WIPO	Authorized offic	eer

Form PCT/IB/307 (July 1992)

Facsimile No. (41-22) 740.14.35

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU
\mathbb{PCT}	То:
	BUDDE, SCHOU & OSTENFELD A/S
COMMUNICATION IN CASES FOR WHICH	Vestergade 31 DK-1456 København K
NO OTHER FORM IS APPLICABLE	DANEMARK
	1
Date of mailing (day/month/year) 10 February 2000 (10.02.00)	!
Applicant's or agent's file reference	REPLY DUE
59871/GW/AW	see paragraph 1 below
International application No.	International filing date (day/month/year)
PCT/DK99/00437	16 August 1999 (16.08.99)
Applicant GEORG FISCH	HED DICA A/C
UEURU FISCI	HER DISA A/S
1. REPLY DUE within months/days from the a	above date of mailing
NO REPLY DUE, however, see below	
MPORTANT COMMUNICATION	
☐ INFORMATION ONLY	
2. COMMUNICATION:	
Z. COMMONICATION.	
Please consider form PCT/IB/307	, unduly issued on 02 February 2000
(02.02.99), as null and void.	,
(,,	
The International Bureau of WIPO	Authorized officer
34, chemin des Colombettes	Eugénia Santos
1211 Geneva 20, Switzerland	_
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.83.38

r ATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU			
PCT	To:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year) 12 novembre 2001 (12.11.01)	BUDDE, SCHOU & OSTENFELD A/S Vester Søgade 10 DK-1601 København V DANEMARK			
Applicant's or agent's file reference 59871/GW/AW	IMPORTANT NOTIFICATION			
International application No.	International filing date (day/month/year)			
PCT/DK99/00437	16 août 1999 (16.08.99)			
The following indications appeared on record concerning: X the applicant the inventor Name and Address GEORG FISCHER DISA A/S	the agent the common representative State of Nationality State of Residence DK DK			
Herley Hovedgade 17 DK-2730 Herley	Telephone No.			
DR-2730 Heriev Denmark				
	Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that the				
X the person the name the add				
Name and Address	State of Nationality State of Residence DK DK			
DISA INDUSTRIES A/S Herlev Hovedgade 17	Telephone No.			
DK-2730 Herlev Denmark	Toophone No.			
Definitation	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary:				
4. A copy of this notification has been sent to:	<u> </u>			
X the receiving Office	the designated Offices concerned			
the International Searching Authority	X the elected Offices concerned			
the International Preliminary Examining Authority	other:			
	Authorized officer			
The International Bureau of WIPO 34, chemin des Colombettes	Anne KARKACHI			
1211 Geneva 20, Switzerland				
Faccimile No : (41,22) 740 14 35	Telephone No.: (41-22) 338 83 38			

PATENT COOPERATION TREAT

PCT

2001
 U 1

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's 59871/G	or agent's file reference W/AW	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
	al application No.	International filing date (day/mor	th/year) Priority date (day/month/year)
PCT/DK9		16/08/1999	16/08/1999
Internationa B22C11/		or national classification and IPC	
Applicant			
GEORG	FISCHER DISA A/S et a	al.	
1. This i	nternational preliminary ex s transmitted to the applica	camination report has been prepare ant according to Article 36.	ed by this International Preliminary Examining Authorit
2. This i	REPORT consists of a total	of 4 sheets, including this cover	sheet.
b (s	een amended and are the	basis for this report and/or sheets n 607 of the Administrative Instruc	the description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).
3. This r	report contains indications Basis of the report	relating to the following items:	
11	☐ Priority		
Ш			nventive step and industrial applicability
IV	☐ Lack of unity of inve		
V		nt under Article 35(2) with regard to nations suporting such statement	o novelty, inventive step or industrial applicability;
VI	☐ Certain documents	cited	
VII	Certain defects in the control of	ne international application	
VIII	Certain observation	s on the international application	
Date of sub	omission of the demand	Date of	of completion of this report
07/07/20	00	06.07	2001
	mailing address of the internat examining authority: European Patent Office	ional Autho	rized officer
<u>o</u>))	D-80298 Munich	Patto	on, G
	Tel. +49 89 2399 - 0 Tx: 52 Fax: +49 89 2399 - 4465	·	2000 No. +49 89 2399 2059

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DK99/00437

i.	Basis	of the	report
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1.	the and	receivina Office in	ments of the international application (Replacement sheets which have been furnished to response to an invitation under Article 14 are referred to in this report as "originally filed" o this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-15	5	as originally filed
	Clai	ims, No.:	
	1-18	3	as originally filed
	Dra	wings, sheets:	
	1/6-	6/6	as originally filed
2.	With	n regard to the lan guage in which the	guage, all the elements marked above were available or furnished to this Authority in the international application was filed, unless otherwise indicated under this item.
	The	se elements were	available or furnished to this Authority in the following language: , which is:
		the language of a	translation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of p	ublication of the international application (under Rule 48.3(b)).
		the language of a 55.2 and/or 55.3).	translation furnished for the purposes of international preliminary examination (under Rule
3.	With inte	n regard to any nu o rnational prelimina	cleotide and/or amino acid sequence disclosed in the international application, the ry examination was carried out on the basis of the sequence listing:
		contained in the ir	nternational application in written form.
		filed together with	the international application in computer readable form.
		furnished subsequ	uently to this Authority in written form.
		furnished subsequ	uently to this Authority in computer readable form.
			at the subsequently furnished written sequence listing does not go beyond the disclosure in application as filed has been furnished.
		The statement the listing has been for	at the information recorded in computer readable form is identical to the written sequence urnished.
4.	The	amendments have	e resulted in the cancellation of:
		the description,	pages:
		the claims.	Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/DK99/00437

		the drawings,	sheets:		
5.					ome of) the amendments had not been made, since they have been as filed (Rule 70.2(c)):
		(Any replacement she report.)	eet contail	ning such	amendments must be referred to under item 1 and annexed to this
6.	Add	litional observations, if	necessar	y:	
٧.		soned statement und tions and explanatio			ith regard to novelty, inventive step or industrial applicability;
1.	Stat	tement			
	Nov	velty (N)	Yes: No:	Claims Claims	1-18
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-18
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-18

2. Citations and explanations see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

PART V - Nov Ity and inventive step (Art. 33(2)-(3) PCT)

The document US-A-5 647 424(=D1), which is cited in the present application on page 1 and considered as the closest art, discloses a method of producing mould parts (5) on a string moulding apparatus comprising a moulding chamber (1) between a squeeze plate (2) and a pivoted squeeze plate (3) in which both the squeeze plate (2) and the pivoted squeeze plate (3) can move in a direction towards each other and a direction away from one another comprising the steps of introducing a compressible particulate moulding material in the moulding chamber (1) and then squeezing the moulding material (5) by moving the squeeze plate (2) and the pivoted squeeze plate (3) towards one another. D1 also discloses an apparatus for performing said process (see col. 1, I. 5-25; col. 2, I. 39 to col. 6, I. 23 and figures).

D1 does not disclose the features of the characterizing part of claims 1 and 9. Therefore, the subject-matter of claims 1 and 9 is novel (Art. 33(2) PCT).

The problem to be solved may be regarded as providing a process or an apparatus enabling low cycle time together with the extraction of the mould part from the moulding chamber after compaction without damage.

Since none of the available prior art discloses or renders obvious the distinguishing features so that the problem is solved, inventive step is also acknowledged for the subject-matter of claims 1 and 9 (Art. 33(3) PCT).

Since claims 2-8 and 10-18 depend on claims 1 and 9, respectively, they also satisfy the requirements of Article 33(2)-(3) PCT.



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 59871/GW/AW			Transmittal of International S 0) as well as, where applicat	
International application No.	International filing date (day	/month/year)	(Earliest) Priority Date (day	//month/year)
PCT/DK 99/00437	16/08/199			
Applicant				
GEORG FISCHER DISA A/S et	al.			
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this Internation ansmitted to the International	al Searching Autho Bureau.	ority and is transmitted to the	applicant
This International Search Report consists X It is also accompanied by	of a total of2 a copy of each prior art docu	sheets. ment cited in this i	eport.	
Basis of the report				
a. With regard to the language, the language in which it was filed, un	international search was carri ess otherwise indicated unde	ied out on the basi r this item.	s of the international applicat	tion in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of	a translation of th	e international application fur	rnished to this
b. With regard to any nucleotide and was carried out on the basis of the	e sequence listing :		ernational application, the int	ternational search
	onal application in written form			
	ernational application in comp	~	•	
1 =	o this Authority in written form. O this Authority in computer re			
the statement that the sul	osequently furnished written s		es not go beyond the disclos	sure in the
	is filed has been furnished. ormation recorded in compute	r readable form is	identical to the written seque	ence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).		
3. Unity of invention is lac	king (see Box II).			
4. With regard to the title,				
the text is approved as su	ibmitted by the applicant.			
1	shed by this Authority to read		TNO ELACKLEGO MOL	II D TNO
INDEPENDENT CONTROL O	F SQUEEZE PLATE VI	ELOCITY DUR	ING FLASKLESS MOU	JLDING
5. With regard to the abstract,				
the text is approved as su the text has been establis within one month from the	shed, according to Rule 38.2(o), by this Authorit ational search rep	y as it appears in Box III. The ort, submit comments to this	applicant may, Authority.
6. The figure of the drawings to be pub			1	
as suggested by the appl			None	of the figures.
because the applicant fai	led to suggest a figure.			
because this figure better	characterizes the invention.		•	

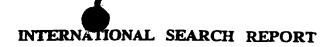
a. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B22C11/10 B22C B22C19/04 1 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B22C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages US 5 647 424 A (LARSEN JENS PETER ET AL) 1 - 18Α 15 July 1997 (1997-07-15) cited in the application claims 1-10; figures 1-3 EP 0 020 082 A (DANSK IND SYNDIKAT) Α 1,9 10 December 1980 (1980-12-10) claims 1,2; figures 1,2 WO 96 30140 A (GEORG FISCHER DISA AS Α 1,9 ;LARSEN JENS PETER (DK); JESPERSEN EMIL (DK)) 3 October 1996 (1996-10-03) claims 1-11; figures 1-5 US 4 791 974 A (LARSEN AAGE B) Α 1,9 20 December 1988 (1988-12-20) claims 1-11; figure 1 Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 12 April 2000 25/04/2000 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Mailliard, A

INTERNATIONAL SEARCH REPORT

aormation on patent family members

pternational Application No PCT/DK 99/00437

	tent document in search report	t	Publication date		Patent family member(s)		Publication date
ÚS	5647424	Α	15-07-1997	DK	126694	A	02-05-1996
				DE	19540850	Α	02-05-1996
				JP	2759433	В	28-05-1998
				JP	8206783	Α	13-08-1996
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				ΑT	2725	T	15-03-1983
				CA	1138618	Α	04-01-1983
				DD	151119	Α	08-10-1981
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				US	4267878		19-05-1981
				ZA	8003059	A 	27-05-1981
WO	9630140	Α	03-10-1996	DK	34595		01-10-1996
				AU	5270396		16-10-1996
				CN	1179739		22-04-1998
				EP	0817690		14-01-1998
				JP	2955369		04-10-1999
				JP	10510217	T 	06-10-1998
US	4791974	Α	20-12-1988	NONE	·		



inter anal Application No PCT/DK 99/00437

			101/08 33	7 00437						
A CLASSII IPC 7	IFICATION OF SUBJECT MATTER B22C11/10 B22C19/04									
According to	o International Patent Classification (IPC) or to both national classific	cation and IPC								
	SEARCHED									
Minimum do IPC 7	ocumentation searched (classification system followed by classificat B22C	tion symbols)								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched										
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)										
	ENTS CONSIDERED TO BE RELEVANT									
Category *	Citation of document, with indication, where appropriate, of the rel	Relevant to claim No.								
A	US 5 647 424 A (LARSEN JENS PETER 15 July 1997 (1997-07-15) cited in the application claims 1-10; figures 1-3	1-18								
A	EP 0 020 082 A (DANSK IND SYNDIKA 10 December 1980 (1980-12-10) claims 1,2; figures 1,2	1,9								
A	WO 96 30140 A (GEORG FISCHER DISA; LARSEN JENS PETER (DK); JESPERSE (DK)) 3 October 1996 (1996-10-03) claims 1-11; figures 1-5	1,9								
A	US 4 791 974 A (LARSEN AAGE B) 20 December 1988 (1988-12-20) claims 1-11; figure 1 			1,9						
Furth	ner documents are listed in the continuation of box C.	X Patent family n	nembers are listed i	in annex.						
* Special cat	tegories of cited documents :	"T" later document publi	icharl after the inte	metional filing data						
conside "E" earlier de	ent defining the general state of the art which is not ered to be of particular relevance document but published on or after the international	mational raing clare the application but sory underlying the								
which to	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another	be considered to current is taken alone laimed invention								
O documer	ent referring to an oral disclosure, use, exhibition or	real invention realized step when the realized docu-								
other m	neans of published prior to the international filing date but	as to a person skilled								
Date of the a	actual completion of the international search	Date of mailing of the								
	2 April 2000	25/04/20	25/04/2000							
Name and ma	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mailliar	rd. A							



inter #

Inter mai Application No PCT/DK 99/00437

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
US !	5647424	Α	15-07-1997	DK	126694 A	02-05-1996
				DE	19540850 A	02-05-1996
				JP	2759433 B	28-05-1998
				JP	8206783 A	13-08-1996
EP (0020082	Α	10-12-1980	DK	230479 A	02-12-1980
-				AT	2725 T	15-03-1983
				CA	1138618 A	04-01-1983
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				AU	5270396 A	16-10-1996
				CN	1179739 A,B	22-04-1998
				EP	0817690 A	14-01-1998
				JP	2955369 B	04-10-1999
				JP	10510217 T	06-10-1998
IIS	4791974	Α	20-12-1988	NONE		